

Friction & Gravity Notes Review

Name: _____ Date: _____

Table: _____ Section: _____

- 1) Describe the four types of friction.
- 2) What factors affect the friction force between two surfaces?
- 3) What is the law of universal gravitation?
- 4) How do mass and distance affect the gravitational attraction between objects?
- 5) Why does an object accelerate when it falls toward Earth's surface?
- 6) How does the mass of an object affect its acceleration during free fall?

Performance Task: Determining the weight of an object

You can determine the weight of an object if you measure its mass.

Step 1: Estimate the weight of three objects

Weight: _____ Glass bottle: _____ Rock: _____

Step 2: Use a balance to find the mass of each object

Weight: _____ Glass bottle: _____ Rock: _____

Step 3: Multiply each mass by 9.8m/s^2 to find the weight in newtons.

Weight: _____ Glass bottle: _____ Rock: _____

Analyze:

- 1) How close were your estimates to actual values?

- 2) What does the value in step 3 tell you about what its weight?

- 3) Come up with a different definition in your own words to describe to someone what weight means.